	Application No.	Applicant(s)
Notice of Allowability	09/826,035 Examiner	DEVINS ET AL. Art Unit
,		
	Michael P Nghiem	2863
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to Interview on 14 October 2004.		
2. The allowed claim(s) is/are 3-5,7 and 21.		
3. The drawings filed on <u>04 April 2001</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply MENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	son's Patent Drawing Review (PTO-	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r	nust be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	6. Interview Summary Paper No./Mail Dai 08), 7. Examiner's Amendr	te <u>10-14-04</u> .
of Biological Material	9.	

Application/Control Number: 09/826,035 Page 2

Art Unit: 2863

Response to Amendment

1. The amendment to the claims filed on October 7, 2004 has not been entered since it does not comply with the requirements of 37 CFR 1.121(c). A complete listing of claims is missing. Amendments to the claims filed on or after July 30, 2003 must comply with 37 CFR 1.121(c) which states:

- (c) Claims. Amendments to a claim must be made by rewriting the entire claim with all changes (e.g., additions and deletions) as indicated in this subsection, except when the claim is being canceled. Each amendment document that includes a change to an existing claim, cancellation of an existing claim or addition of a new claim, must include a complete listing of all claims ever presented, including the text of all pending and withdrawn claims, in the application. The claim listing, including the text of the claims, in the amendment document will serve to replace all prior versions of the claims, in the application. In the claim listing, the status of every claim must be indicated after its claim number by using one of the following identifiers in a parenthetical expression: (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New), and (Not entered).
- (1) Claim listing. All of the claims presented in a claim listing shall be presented in ascending numerical order. Consecutive claims having the same status of "canceled" or "not entered" may be aggregated into one statement (e.g., Claims 1–5 (canceled)). The claim listing shall commence on a separate sheet of the amendment document and the sheet(s) that contain the text of any part of the claims shall not contain any other part of the amendment.
- (2) When claim text with markings is required. All claims being currently amended in an amendment paper shall be presented in the claim listing, indicate a status of "currently amended," and be submitted with markings to indicate the changes that have been made relative to the immediate prior version of the claims. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. Only claims having the status of "currently amended," or "withdrawn" if also being amended, shall include markings. If a withdrawn claim is currently amended, its status in the claim listing may be identified as "withdrawn—currently amended."
- (3) When claim text in clean version is required. The text of all pending claims not being currently amended shall be presented in the claim listing in clean

Application/Control Number: 09/826,035

Art Unit: 2863

version, *i.e.*, without any markings in the presentation of text. The presentation of a clean version of any claim having the status of "original," "withdrawn" or "previously presented" will constitute an assertion that it has not been changed relative to the immediate prior version, except to omit markings that may have been present in the immediate prior version of the claims of the status of "withdrawn" or "previously presented." Any claim added by amendment must be indicated with the status of "new" and presented in clean version, *i.e.*, without any underlining.

- (4) When claim text shall not be presented; canceling a claim.
- (i) No claim text shall be presented for any claim in the claim listing with the status of "canceled" or "not entered."
- (ii) Cancellation of a claim shall be effected by an instruction to cancel a particular claim number. Identifying the status of a claim in the claim listing as "canceled" will constitute an instruction to cancel the claim.
- (5) Reinstatement of previously canceled claim. A claim which was previously canceled may be reinstated only by adding the claim as a "new" claim with a new claim number.

It is further noted that new claims 22 and 23, introduced on September 7, 2004, have not been entered. Thus, they cannot be canceled.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Mr. George Pettit during a telephone interview on October 14, 2004.

3. The application has been amended as follows:

Page 4

Art Unit: 2863

In the specification:

Page 1, line 13, after "09/494,907" insert -- , filed on January 31, 2000, now US patent 6,539,522 --.

In the claims, a complete listing of the claims follows:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Currently amended) A system for verifying core of a system on a chip (SOC) of claim 21, wherein said bi-directional general purpose I/O device is couple between said core of a system on a chip (SOC) and said bus functional model, and transfers said directives between said design and said bus functional model.
- 4. (Currently amended) The system for verifying a core of claim 21, wherein control code in said bus functional model responds to said directives by configuring said mirror interface for said exchange of data.
- 5. (Currently amended) The system for verifying a core of claim 4, wherein said control code verifies results of said exchange of data.

Application/Control Number: 09/826,035
Art Unit: 2863
15. (Canceled)
16. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Previously presented) A system for verifying an external interface of a core of a system on a chip (SOC) comprising:

a mirror interface having the identical input and output connections of said external interface;

a bus functional interface connected to said mirror interface for modeling an internal bus, said bus functional interface having a processor model for emitting CPU cycles which emulate a processor, a control mechanism which controls the flow of data through the external interface and to apply test stimuli from the mirror interface to the external interface, and a memory to receive any data transferred from the external interface; and

Art Unit: 2863

an external bi-directional general purpose I/O connected to said SOC to transfer control directives to configure the mirror interface through the bus functional interface for a given test case being executed in said SOC, and to exchange data between the external interface and mirror interface during the given test case.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H from 6:30AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached at (571) 272-2269. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MICHAEL NGHIEM
PRIMARY EXAMINER
Michael Nghiem

October 14, 2004